

**In the Claims:**

- 1                   1. A system for remediating a contaminated subterranean  
2 body of groundwater, comprising:  
3                   a supply of concentrated oxygen;  
4                   a control mechanism for controlling the release of oxygen from  
5 said supply of concentrated oxygen;  
6                   a plurality of injection conduits in communication with said  
7 control mechanism and extending below ground through an entry hole, said  
8 plurality of injection conduits extending in a non-vertical fashion as they  
9 extend below a surface of groundwater; and  
10                  a plurality of injection sites formed adjacent an end of each of  
11 said plurality of injection conduits to release oxygen from said supply of  
12 concentrated oxygen into the groundwater.
- 1                   2. The system of claim 1, wherein said plurality of injection  
2 conduits are positioned in a first bore hole and each have a different length.
- 1                   3. The system of claim 1, wherein each of said plurality of  
2 injection sites is comprised of an expendable screen coupled to an end of a  
3 respective one of said plurality of injection conduits.
- 1                   4. The system of claim 1, wherein each of said plurality of  
2 injection sites is comprised of one or more holes formed adjacent an end of a  
3 respective one of said plurality of injection conduits.

1                   5. The system of claim 1, further comprising:  
2                   a supply of microbials in communication with said plurality of  
3 injection conduits to release said microbials into said groundwater through a  
4 respective one of a said injection sites.

1                   6. The system of claim 1, wherein said control mechanism is  
2 interposed between said supply of concentrated oxygen and said plurality of  
3 injection conduits, said control mechanism regulating the flow of oxygen to  
4 said plurality injection conduits.

1                   7. The system of claim 6, wherein said control mechanism  
2 includes a plurality of flow meters with each of said plurality of injection  
3 conduits being in communication with a separate one of said plurality of flow  
4 meters in communication therewith.

1                   8. The system of claim 2, wherein said entry hole for said first  
2 bore hole is located adjacent said control mechanism and said first bore hole  
3 has an exit point located remotely from said entry hole.

1                   9. The system of claim 2, further comprising:  
2                   a plurality of bore holes, with each of said plurality of bore holes  
3 having a plurality of injection conduits located therein.

1                   10. A method for remediating a contaminated subterranean  
2 body of groundwater to destroy or reduce contaminants comprising:

3 determining a location for a plurality of injection sites in the  
4 body of groundwater;

5 boring a first hole in ground having an entry point and an exit  
6 point located remotely from said entry point;

7 inserting a plurality of injection conduits each having a  
8 respective injection site formed thereon into said first bore hole and in  
9 communication with the body of groundwater, such that said plurality of  
10 injection sites are positioned in said determined location; and

11 delivering substantially pure oxygen to said at least one injection  
12 conduit and said plurality of injection sites.

1 11. The method of claim 10, further comprising:

2 regulating the flow of said substantially pure oxygen to said  
3 plurality of injection sites, such that the level of oxygen in the soil gas vapor is  
4 between a range of approximately 15% and 25%.

1 12. The method of claim 10 further comprising:

2 inserting a plurality of injection conduits each having a different  
3 length into said first bored hole.

1 13. The method of claim 10, wherein said substantially pure  
2 oxygen is delivered to said plurality of injection conduits and thus said  
3 plurality of injection sites from a supply of liquid oxygen.

1 14. The method of claim 10, further comprising:

2 delivering an amount of microbials to said plurality of injection  
3 conduits and said plurality of injection sites located thereon and into the body  
4 of groundwater to assist in reducing the level of contaminants.

1 15. The method of claim 10, further comprising:  
2 forming a plurality of bore holes; and  
3 locating a plurality of injection conduits having a respective  
4 injection site located at an end thereof into each of said plurality of bore holes.

1 16. The method of claim 10, wherein the step of inserting said  
2 plurality of injection conduits includes pulling said injection conduits from  
3 said exit point through said first bore hole and out said entry point.

1 17. A method for remediating a contaminated groundwell,  
2 including a subterranean body of water, comprising:  
3 providing a supply of oxygen;  
4 conveying oxygen from said supply of oxygen to a control  
5 mechanism;  
6 providing a plurality of injection conduits each having a first end  
7 in communication with said control mechanism, a middle portion extending  
8 below ground and terminating at an injection site in communication with the  
9 body of groundwater, said injection site being located remotely in a horizontal  
10 direction from said first end;  
11 locating said injection sites of each of said plurality of injection  
12 conduits at predetermined locations in the body of groundwater; and

13 delivering oxygen from said control mechanism to said plurality  
14 of injection sites.

1 18. The method of claim 17, further comprising:  
2 regulating the flow rate of oxygen injected from said control  
3 mechanism to said plurality of injection conduits.

1 19. The method of claim 17, further comprising:  
2 regulating the pressure of oxygen as it is conveyed to said  
3 control mechanism.

1 20. The method of claim 17, further comprising:  
2 providing a mechanism to monitor the levels of contaminants  
3 contained in the body of groundwater before and during the remediating  
4 process.

1 21. The method of claim 17, further comprising:  
2 determining the location for said plurality of injection sites; and  
3 boring a hole along a path where said injection sites are to be  
4 located.

1 22. The method of claim 21, further comprising:  
2 inserting said plurality of injection conduits into said bored hole.

1 23. The method of claim 17, further comprising:

2 boring a plurality of holes along a respective plurality of paths  
3 where associated injections sites are to be located; and  
4 inserting a plurality of injection conduits into each of said  
5 plurality of holes.

1 24. The method of claim 23, wherein each of said plurality of  
2 bore holes enter ground through the same entry hole.

1 25. The method of claim 18, further comprising:  
2 monitoring the level of oxygen in the soil gas vapor; and  
3 maintaining said level of oxygen in a range between about 15%  
4 and 25%.